



SAFETY DATA SHEET

Classified in accordance with 29 CFR 1910.1200

1. Identification

Product identifier: BEEF MARINADE MIX LWY

Other means of identification

SDS number: 000000047098
Pack Codes 901300234, 466101
Item Code: 466101

Recommended use and restriction on use

Recommended use: Food Ingredient
Restrictions on use: For Manufacturing Use Only

Manufacturer/Importer/Distributor Information

Manufacturer

Company Name: McCormick and Company, Inc
Address: 24 Schilling Road, Suite 1
Hunt Valley, Maryland 21031
USA

Telephone: (410) 771-7500
Fax: (410) 527-6442

Emergency telephone number: 1-800-424-9300 (Chemtrec - North America)
001-703-527-3887 (Chemtrec - International)

2. Hazard(s) identification

Hazard Classification

OSHA hazard(s)

Combustible dust

Label Elements

Hazard Symbol: No symbol

Signal Word: Warning

Hazard Statement: May form combustible dust concentrations in air.

Precautionary Statements

Prevention: Prevent dust accumulation to minimize explosion hazard. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Keep container tightly closed. Ground and bond container and receiving equipment.



Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Hazard(s) not otherwise classified (HNOC): May form combustible dust concentrations in air.

3. Composition/information on ingredients

Mixtures

Chemical Identity	Common name and synonyms	CAS number	Content in percent (%) [*]
Salt	No data available.	7647-14-5	50 - <100%
Starch	No data available.	9005-25-8	10 - <20%
Sugar	No data available.	57-50-1	10 - <20%
Garlic	No data available.		1 - <5%
Black Pepper	No data available.		1 - <5%
Onion	No data available.		1 - <5%
Trade Secret	No data available.	Trade Secret	0.1 - <1%
Trade Secret	No data available.	Trade Secret	0 - <0.1%
Trade Secret	No data available.	Trade Secret	0 - <0.1%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Trade secret information: A specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. First-aid measures

Description of necessary first-aid measures

Inhalation: Move to fresh air.

Skin Contact: Wash skin with soap and water. If skin irritation occurs: Get medical advice/attention.

Eye contact: Rinse immediately with plenty of water.

Ingestion: Rinse mouth thoroughly.

Personal Protection for First-aid Responders: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Most important symptoms and effects, both acute and delayed



Symptoms: No data available.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Get medical attention if symptoms occur.

5. Fire-fighting measures

General Fire Hazards: No unusual fire or explosion hazards noted.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: Apply extinguishing media carefully to avoid creating airborne dust. Use dry chemical, carbon dioxide (CO₂), or a dry, non-combustible material such as dry sand or earth to extinguish flames. Foam. Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Special hazards arising from the substance or mixture: During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for fire-fighters

Special fire-fighting procedures: No data available.

Special protective equipment for fire-fighters: Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration.

Methods and material for containment and cleaning up: Stop the flow of material, if this is without risk. Absorb with sand or other inert absorbent.

Environmental Precautions: Avoid release to the environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water sources or sewer. Environmental manager must be informed of all major spillages.

7. Handling and storage

Handling



Technical measures (e.g. Local and general ventilation): No data available.

Safe handling advice: Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Avoid significant deposits of material, especially on horizontal surfaces, which may become airborne and form combustible dust clouds and may contribute to secondary explosions.

Contact avoidance measures: No data available.

Storage

Safe storage conditions: Store away from incompatible materials. Store in original tightly closed container.

Safe packaging materials: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Type	Exposure Limit Values	Source
Starch - Respirable.	REL	5 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Starch - Total	REL	10 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
Starch	TWA	10 mg/m3	US. ACGIH Threshold Limit Values, as amended
Starch - Total dust.	TWA	15 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	PEL	15 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
Starch - Respirable fraction.	PEL	5 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	5 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
Starch - Total dust.	TWA	15 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
	TWA PEL	10 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
	TWA	15 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Starch - Respirable fraction.	TWA PEL	5 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended



	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
	TWA	5 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Sugar	TWA	10 mg/m ³	US. ACGIH Threshold Limit Values, as amended
Sugar - Total dust.	PEL	15 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	15 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Sugar - Respirable fraction.	PEL	5 mg/m ³	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	5 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
Sugar - Total dust.	TWA	15 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
Sugar - Respirable fraction.	TWA	5 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
Trade Secret	REL	6 mg/m ³	US. NIOSH: Pocket Guide to Chemical Hazards, as amended
	TWA	20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
	TWA	0.8 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
	TWA	6 mg/m ³	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	TWA	6 mg/m ³	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
	IDLH	3,000 mg/m ³	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
Trade Secret - Particulate.	ST ESL	27 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	AN ESL	2 µg/m ³	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
Trade Secret - Total dust.	TWA	50 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
	TWA	15 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Trade Secret - Respirable particles.	TWA	3 mg/m ³	US. ACGIH Threshold Limit Values, as amended
Trade Secret - Total dust.	TWA PEL	10 mg/m ³	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
Trade Secret - Respirable fraction.	TWA	5 mg/m ³	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
Trade Secret - Inhalable particles.	TWA	10 mg/m ³	US. ACGIH Threshold Limit Values, as amended
Trade Secret - Respirable fraction.	TWA	15 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
	TWA PEL	5 mg/m ³	US. California Code of Regulations, Title 8,



			Section 5155. Airborne Contaminants, as amended
Trade Secret - Particulate.	ST ESL	27 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	AN ESL	2 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
Trade Secret	IDLH	3,000 mg/m3	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
Trade Secret - Particulate.	AN ESL	2 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	27 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	ST ESL	27 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
	AN ESL	2 µg/m3	US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality), as amended
Trade Secret	TWA	0.8 mg/m3	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
	TWA	20 millions of particles per cubic foot of air	US. OSHA Table Z-3 (29 CFR 1910.1000), as amended
	PEL	5 ppm 13 mg/m3	US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended
	TWA	2 ppm 5 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	5 ppm 13 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended
	STEL	5 ppm 10 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
	TWA PEL	2 ppm 5 mg/m3	US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants, as amended
	STEL	0.25 ppm	US. ACGIH Threshold Limit Values, as amended
	TWA	2 ppm 5 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended
	IDLH	100 ppm	US. NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended
	STEL	5 ppm 10 mg/m3	US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A, as amended

Please refer to the latest edition of the appropriate source text and consult an industrial hygienist or similar professional, or local agencies, for further information.

Biological Limit Values

No biological exposure limits noted for the ingredient(s).

Appropriate Engineering Controls No data available.

Individual protection measures, such as personal protective equipment



Eye/face protection:	Wear safety glasses with side shields (or goggles).
Skin Protection	
Hand Protection:	No data available.
Skin and Body Protection:	No data available.
Respiratory Protection:	In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.
Hygiene measures:	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance

Physical state:	solid
Form:	Dry.
Color:	Gray Brown
Odor:	Characteristic
Odor Threshold:	No data available.
Melting Point:	No data available.
Boiling Point:	No data available.
Flammability:	No data available.

Upper/lower limit on flammability or explosive limits

Explosive limit - upper:	No data available.
Explosive limit - lower:	No data available.
Flash Point:	No data available.
Autoignition Temperature:	No data available.
Decomposition Temperature:	No data available.
pH:	No data available.

Viscosity

Dynamic viscosity:	No data available.
Kinematic viscosity:	No data available.
Flow Time:	No data available.

Solubility(ies)

Solubility in Water:	The product is insoluble in water.
Solubility (other):	No data available.
Partition coefficient (n-octanol/water):	No data available.
Vapor pressure:	No data available.
Relative density:	No data available.
Density:	No data available.



Bulk density: No data available.
Vapor density (air=1): No data available.

10. Stability and reactivity

Reactivity: No data available.
Chemical Stability: Material is stable under normal conditions.
Possibility of hazardous reactions: No data available.
Conditions to avoid: Avoid heat or contamination.
Incompatible Materials: No data available.
Hazardous Decomposition Products: No data available.

11. Toxicological information

Information on toxicological effects

Inhalation: No data available.
Skin Contact: No data available.
Eye contact: No data available.
Ingestion: No data available.

Information on likely routes of exposure

Acute toxicity (list all possible routes of exposure)

Oral

Product: ATEmix: 4,755.58 mg/kg
Components:
Salt LD 50 (Rat): 3,550 mg/kg
Supporting study LD 50 (Rat): > 3,980 mg/kg
Weight of evidence
Starch No data available.
Sugar LD 50 (Rat): 29,700 mg/kg
Garlic No data available.
Black Pepper No data available.
Onion No data available.
Trade Secret No data available.
Trade Secret LD 50 (Rat): 7,376 mg/kg
Key study
Trade Secret No data available.

Dermal

Product: No data available.
Components:
Salt LD 50 (Rabbit): > 10,000 mg/kg
Starch No data available.
Sugar No data available.
Garlic No data available.



Black Pepper	No data available.
Onion	No data available.
Trade Secret	No data available.
Trade Secret	No data available.
Trade Secret	No data available.

Inhalation

Product: No data available.

Components:

Salt	LC 50 (Rat, 1 h): > 42 mg/l Aerosol; 2 = reliable with restrictions; Aerosol, Supporting study
Starch	No data available.
Sugar	No data available.
Garlic	No data available.
Black Pepper	No data available.
Onion	No data available.
Trade Secret	No data available.
Trade Secret	No data available.
Trade Secret	LC 50 (Mouse, 30 min): 3000 ppm

Repeated dose toxicity

Product: No data available.

Components:

Salt	LOAEL (Rat(Male), Oral, 2 yr): 4 %(m) Oral Other, Key study
Starch	No data available.
Sugar	No data available.
Garlic	No data available.
Black Pepper	No data available.
Onion	No data available.
Trade Secret	No data available.
Trade Secret	LOAEL (Rat(Male), Inhalation): 25.1 mg/m3 Inhalation Experimental result, Supporting study
	NOAEL (Rat(Male), Inhalation): 5.13 mg/m3 Inhalation Experimental result, Supporting study
	NOAEL (Rabbit(Female, Male), Dermal, 3 Weeks): >= 10,000 mg/kg Dermal Experimental result, Supporting study
	NOAEL (Rat(Male), Oral, 6 Months): 7,950 mg/kg Oral Experimental result, Key study
Trade Secret	NOAEL (Dog(female), Inhalation, 620 d): 5.1 ppm(m) Inhalation Experimental result, Supporting study
	NOAEL (Monkey(Female, Male), Inhalation, 78 Weeks): 5.12 ppm(m) Inhalation Experimental result, Supporting study
	NOAEL (Rat(Female, Male), Inhalation, 4 Weeks): 5 ppm(m) Inhalation Experimental result, Key study
	LOAEL (Rat(Male), Inhalation, 21 Weeks): 10 ppm(m) Inhalation Experimental result, Supporting study
	NOAEL (Monkey(Female, Male), Inhalation, 78 - 86 Weeks): 1.28 ppm(m) Inhalation Experimental result, Supporting study

Skin Corrosion/Irritation

Product: No data available.

Components:

Salt	in vivo (Rabbit): Not irritant , 24 - 72 h
Starch	No data available.
Sugar	No data available.
Garlic	No data available.
Black Pepper	No data available.
Onion	No data available.



Trade Secret	No data available.
Trade Secret	in vivo (Rabbit): Not irritant , 48 h
Trade Secret	Irritating

Serious Eye Damage/Eye Irritation

Product: No data available.

Components:

Salt	Insufficient info for classification in vivo Rabbit, 72 h: Not Classified in vivo and in vitro Rabbit, 24 h: EU Insufficient info for classification in vivo Rabbit, 24 h: Insufficient info for classification in vivo Rabbit, 48 h: Very low cytotoxicity In vitro Hamster, Chinese, lung cell lines, 48 h: Japan
Starch	No data available.
Sugar	No data available.
Garlic	No data available.
Black Pepper	No data available.
Onion	No data available.
Trade Secret	No data available.
Trade Secret	Not irritant in vivo Rabbit: EU
Trade Secret	Severely Irritating Strongly Irritating

Respiratory or Skin Sensitization

Product: No data available.

Components:

Salt	No data available.
Starch	No data available.
Sugar	No data available.
Garlic	No data available.
Black Pepper	No data available.
Onion	No data available.
Trade Secret	No data available.
Trade Secret	Skin sensitization:: Non sensitising
Trade Secret	No data available.

Carcinogenicity

Product: No data available.

Components:

Salt	No data available.
Starch	No data available.
Sugar	No data available.
Garlic	No data available.
Black Pepper	No data available.
Onion	No data available.
Trade Secret	No data available.
Trade Secret	No data available.
Trade Secret	No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogens present or none present in regulated quantities

ACGIH: US.ACGIH Threshold Limit Values:

No carcinogens present or none present in regulated quantities

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogens present or none present in regulated quantities



US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogens present or none present in regulated quantities

Germ Cell Mutagenicity

In vitro

Product: No data available.

Components:

Salt	No data available.
Starch	No data available.
Sugar	No data available.
Garlic	No data available.
Black Pepper	No data available.
Onion	No data available.
Trade Secret	No data available.
Trade Secret	No data available.
Trade Secret	No data available.

In vivo

Product: No data available.

Components:

Salt	No data available.
Starch	No data available.
Sugar	No data available.
Garlic	No data available.
Black Pepper	No data available.
Onion	No data available.
Trade Secret	No data available.
Trade Secret	No data available.
Trade Secret	No data available.

Reproductive toxicity

Product: No data available.

Components:

Salt	No data available.
Starch	No data available.
Sugar	No data available.
Garlic	No data available.
Black Pepper	No data available.
Onion	No data available.
Trade Secret	No data available.
Trade Secret	No data available.
Trade Secret	No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Components:

Salt	No data available.
Starch	No data available.
Sugar	No data available.
Garlic	No data available.
Black Pepper	No data available.
Onion	No data available.
Trade Secret	No data available.
Trade Secret	No data available.
Trade Secret	No data available.

Specific Target Organ Toxicity - Repeated Exposure



Product:	No data available.
Components:	
Salt	No data available.
Starch	No data available.
Sugar	No data available.
Garlic	No data available.
Black Pepper	No data available.
Onion	No data available.
Trade Secret	No data available.
Trade Secret	No data available.
Trade Secret	No data available.

Aspiration Hazard

Product:	No data available.
Components:	
Salt	No data available.
Starch	No data available.
Sugar	No data available.
Garlic	No data available.
Black Pepper	No data available.
Onion	No data available.
Trade Secret	No data available.
Trade Secret	No data available.
Trade Secret	No data available.

Information on health hazards

Other hazards

Product:	No data available.
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12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product:	No data available.
Components:	
Salt	LC 50 (Lepomis macrochirus, 96 h): 5,840 mg/l Experimental result, Key study
Starch	No data available.
Sugar	No data available.
Garlic	No data available.
Black Pepper	No data available.
Onion	No data available.
Trade Secret	No data available.
Trade Secret	LL 0 (Danio rerio, 96 h): 10,000 mg/l Read-across from supporting substance (structural analogue or surrogate), Supporting study



Trade Secret No data available.

Aquatic Invertebrates

Product: No data available.

Components:

Salt	LC 50 (Ceriodaphnia dubia, 48 h): 1,960,000 µg/l
Starch	No data available.
Sugar	No data available.
Garlic	No data available.
Black Pepper	No data available.
Onion	No data available.
Trade Secret	LC 50 (Daphnia magna, 24 h): 10,000 mg/l
Trade Secret	EC 50 (Daphnia magna, 24 h): > 10,000 mg/l experimental result
	Experimental result, Supporting study
Trade Secret	No data available.

Toxicity to Aquatic Plants

Product: No data available.

Components:

Salt	No data available.
Starch	No data available.
Sugar	No data available.
Garlic	No data available.
Black Pepper	No data available.
Onion	No data available.
Trade Secret	No data available.
Trade Secret	No data available.
Trade Secret	No data available.

Toxicity to microorganisms

Product: No data available.

Components:

Salt	No data available.
Starch	No data available.
Sugar	No data available.
Garlic	No data available.
Black Pepper	No data available.
Onion	No data available.
Trade Secret	No data available.
Trade Secret	No data available.
Trade Secret	No data available.

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Components:

Salt	NOAEL (Pimephales promelas): 252 mg/l (flow-through) experimental result Experimental result, Key study
Starch	No data available.
Sugar	No data available.
Garlic	No data available.
Black Pepper	No data available.
Onion	No data available.
Trade Secret	No data available.
Trade Secret	No data available.
Trade Secret	No data available.



Aquatic Invertebrates

Product:	No data available.
Components:	
Salt	LOAEL (Daphnia pulex): 441 mg/l (semi-static) experimental result Experimental result, Key study NOAEL (Daphnia pulex): 314 mg/l (semi-static) experimental result Experimental result, Key study
Starch	No data available.
Sugar	No data available.
Garlic	No data available.
Black Pepper	No data available.
Onion	No data available.
Trade Secret	No data available.
Trade Secret	No data available.
Trade Secret	No data available.

Toxicity to Aquatic Plants

Product:	No data available.
Components:	
Salt	No data available.
Starch	No data available.
Sugar	No data available.
Garlic	No data available.
Black Pepper	No data available.
Onion	No data available.
Trade Secret	No data available.
Trade Secret	No data available.
Trade Secret	No data available.

Toxicity to microorganisms

Product:	No data available.
Components:	
Salt	No data available.
Starch	No data available.
Sugar	No data available.
Garlic	No data available.
Black Pepper	No data available.
Onion	No data available.
Trade Secret	No data available.
Trade Secret	No data available.
Trade Secret	No data available.

Persistence and Degradability

Biodegradation

Product:	No data available.
Components:	
Salt	No data available.
Starch	No data available.
Sugar	No data available.
Garlic	No data available.
Black Pepper	No data available.



Onion No data available.

Trade Secret No data available.

Trade Secret No data available.

Trade Secret No data available.

BOD/COD Ratio

Product: No data available.

Components:

Salt No data available.

Starch No data available.

Sugar No data available.

Garlic No data available.

Black Pepper No data available.

Onion No data available.

Trade Secret No data available.

Trade Secret No data available.

Trade Secret No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Components:

Salt No data available.

Starch No data available.

Sugar No data available.

Garlic No data available.

Black Pepper No data available.

Onion No data available.

Trade Secret No data available.

Trade Secret No data available.

Trade Secret No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Components:

Salt No data available.

Starch No data available.

Sugar Log Kow: -3.70

Garlic No data available.

Black Pepper No data available.

Onion No data available.

Trade Secret No data available.

Trade Secret No data available.

Trade Secret No data available.

Mobility in soil:

Product No data available.

Components:

Salt No data available.

Starch No data available.

Sugar No data available.

Garlic No data available.

Black Pepper No data available.



Onion	No data available.
Trade Secret	No data available.
Trade Secret	No data available.
Trade Secret	No data available.

Product Components:	No data available.
Salt	No data available.
Starch	No data available.
Sugar	No data available.
Garlic	No data available.
Black Pepper	No data available.
Onion	No data available.
Trade Secret	No data available.
Trade Secret	No data available.
Trade Secret	No data available.

Other adverse effects:

Other hazards	
Product:	No data available.

13. Disposal considerations

Disposal methods:	Confirm disposal procedures with environmental engineer and local regulations.
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Contaminated Packaging:	No data available.
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14. Transport information

DOT
Not regulated.

IATA Passenger
Not regulated.

IATA Cargo
Not regulated.

IMDG
Not regulated.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
None present or none present in regulated quantities.



US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)

None present or none present in regulated quantities.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Combustible dust

US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances

Chemical Identity

Trade Secret

US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65



WARNING: This product can expose you to chemicals including, Trade Secret which is [are] known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Salt
Starch
Sugar
Trade Secret
Garlic
Black Pepper
Onion
Trade Secret
Trade Secret
Trade Secret

US. Massachusetts RTK - Substance List

Chemical Identity

Trade Secret



US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Starch

Sugar

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

16. Other information, including date of preparation or last revision
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Issue Date: 09/04/2023

Version #: 00004.0

Further Information: NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

Disclaimer: This information is provided without warranty. The information is believed to be correct. This information should be used to make an independent determination of the methods to safeguard workers and the environment.